

Health and Disease Summary

March 2019

Measles Update (as of 11 APRIL 2019)

U.S. Case Count: 555 (AZ, CA, CO, CT, FL, GA, IL, IN, KY, MA, MD, MI, MO, NH, NJ, NV, NY, OR, TX, and WA)

S.D. Case Count: 0

Symptoms: Usually appear 7–14 days after exposure

- High fever (104°F or more)
- Cough
- Runny nose (coryza)
- Red, watery eyes (conjunctivitis)
- Koplik's spots (2–3 days after symptom onset)
- Maculopapular rash (3–5 days after symptom onset) appears on the face at the hairline and spread downward



Maculopapular rash of measles

Maintain vigilance: Due to the ongoing transmission of measles in the U.S. and anticipated travel for the upcoming holiday, clinicians should be vigilant about individuals presenting with measles symptoms. Suspect patients should be isolated and tested immediately. Testing includes serum for IgM/IgG and nasopharyngeal swab for PCR.



Koplik's spots on soft palate

Vaccination: A single dose is 93% effective at preventing illness

For more information, visit:

CDC: <https://www.cdc.gov/measles/index.html>

SD-DOH: <https://doh.sd.gov/diseases/measles.aspx>

SD Public Health Laboratory: <https://doh.sd.gov/lab/medical-microbiology/>



South Dakota Infectious Disease Summary 2019

Disease/Agent	Cases YTD	Rate	5-Year Median YTD	Percent change
Campylobacter	77	8.9	57	+35%
Carbapenem-resistant Enterobacteriaceae	14	1.6 [‡]	11	+27%
Chlamydia	1124	127.9	1112	-1%
Coccidioidomycosis	0	0.0 [‡]	2*	-100%
Cryptosporidiosis	30	3.4	24	+25%
Cyclosporiasis	0	0.0 [‡]	0	--
E. coli, shiga toxin-producing	11	1.3 [‡]	8	+38%
Ehrlichiosis	0	0.0 [‡]	0	--
Giardiasis	9	1.0 [‡]	24	-63%
Gonorrhea	456	52.4	308	+48%
Haemophilus influenzae, invasive	6	0.7 [‡]	4*	+50%
Hepatitis A	2	0.1 [‡]	0	--
Hepatitis B, chronic	12	1.4 [‡]	10	+20%
Hepatitis C, acute and chronic	129	14.8	165	-22%
HIV, including Stage III (AIDS)	3	0.3 [‡]	9	-67%
Legionellosis	3	0.3 [‡]	1	+200%
Listeriosis	0	0.0 [‡]	0	--
Lyme disease	1	0.1 [‡]	0	--

YTD: Year-to-Date Rate: Cases per 100,000 population 5-Year Median: 2014–2018 (* Denotes 3-Year Median: 2016–2018)

‡ Unstable rate based on <20 observations



South Dakota Infectious Disease Summary 2019

Disease/Agent	Cases YTD	Rate	5-Year Median YTD	Percent change
Malaria	0	0.0 [‡]	0	--
Measles	0	0.0 [‡]	0	--
MRSA, invasive	29	3.3	39	-26%
Pertussis	40	4.6	6	+567%
Pneumococcal disease, invasive	33	3.8	33	+0%
Q fever	0	0.0 [‡]	1	-100%
Rabies, animal	0	NA	3	-100%
Salmonella	32	3.7	42	-24%
Shigella	4	0.5 [‡]	9	-56%
Spotted fever Rickettsiosis	0	0.0 [‡]	0	--
Syphilis, early	6	0.7 [‡]	15	-60%
Toxic shock syndrome	0	0.0 [‡]	--	--
Tuberculosis	4	0.5 [‡]	4	+0%
Tularemia	1	0.1 [‡]	0	--
Varicella	13	1.5 [‡]	8	+63%
Vibriosis	0	0.0 [‡]	0*	--
West Nile Virus	0	0.0 [‡]	0	--

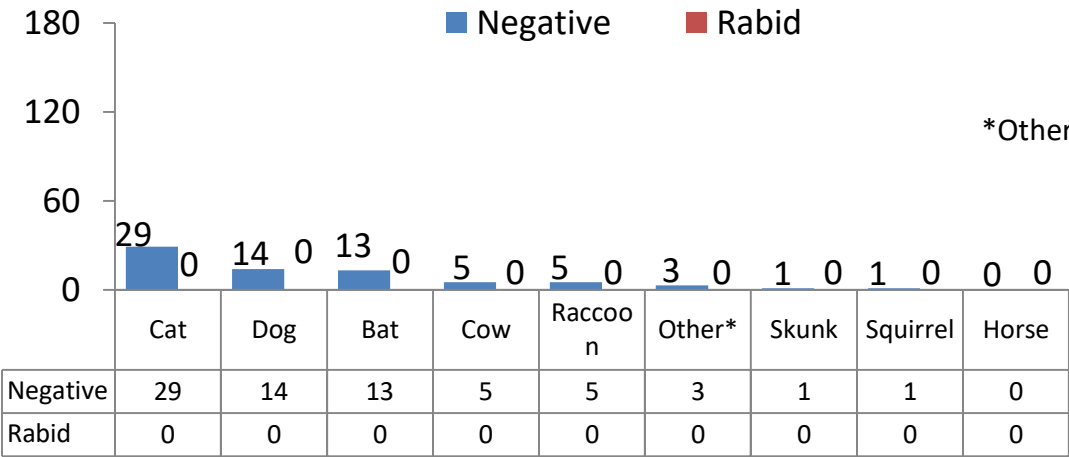
YTD: Year-to-Date Rate: Cases per 100,000 population 5-Year Median: 2014–2018 (* Denotes 3-Year Median: 2016–2018)
‡ Unstable rate based on <20 observations

Rabies

Rabies is a fatal, but preventable, disease of mammals most often transmitted through the bite of a rabid animal.

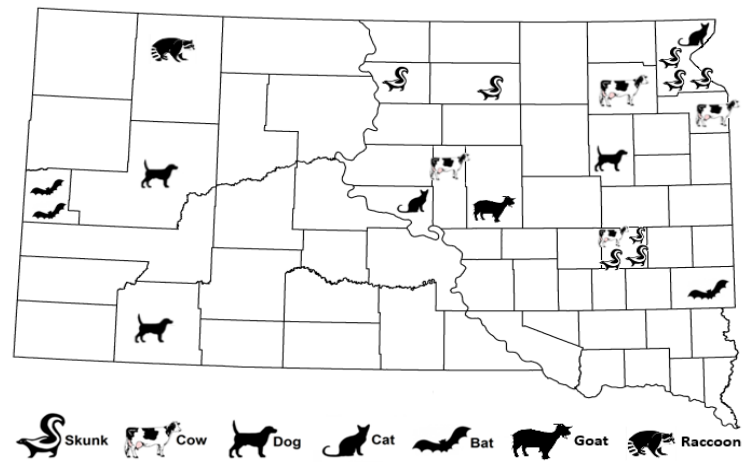
Counties

None

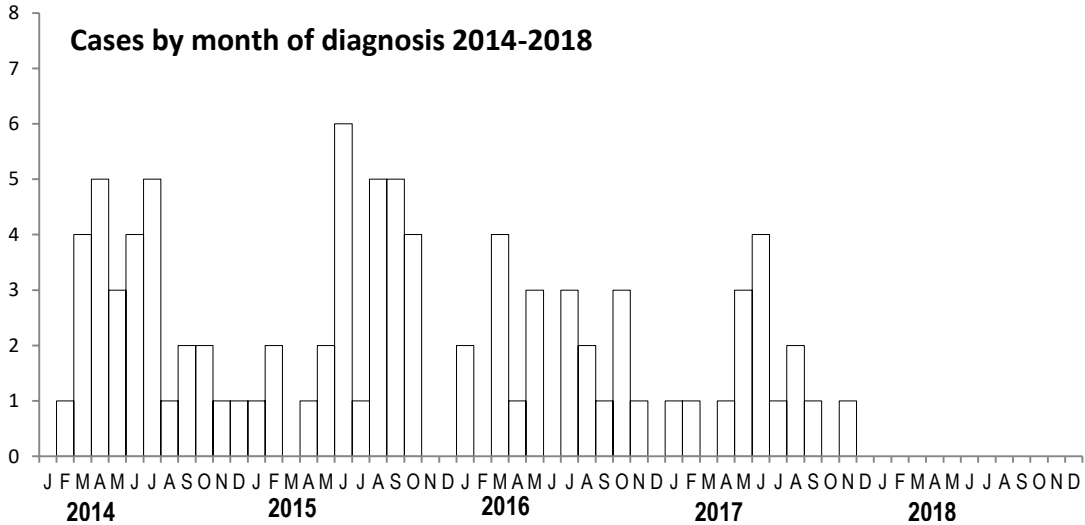


*Other: coyote (1), muskrat (1), opossum (1)

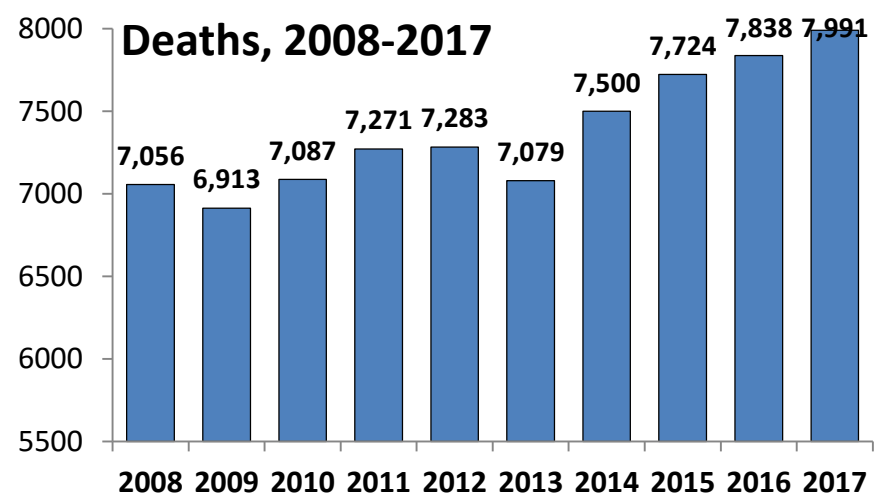
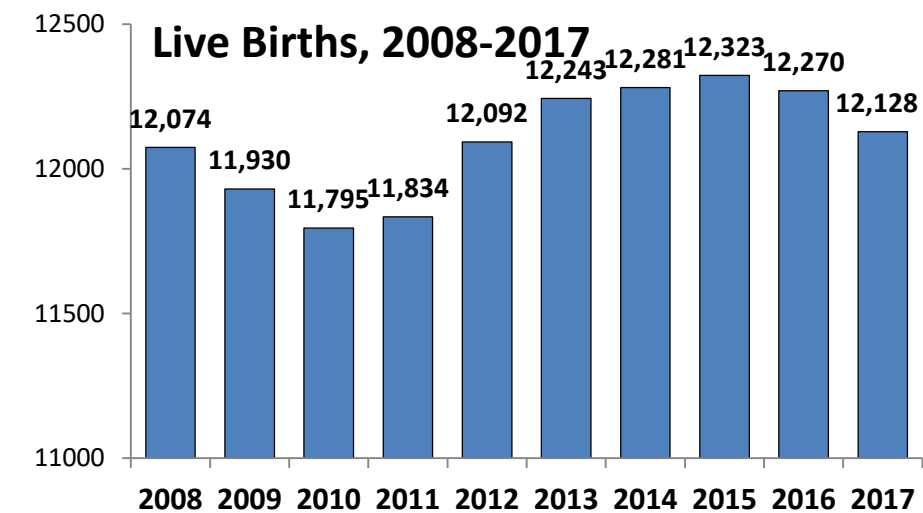
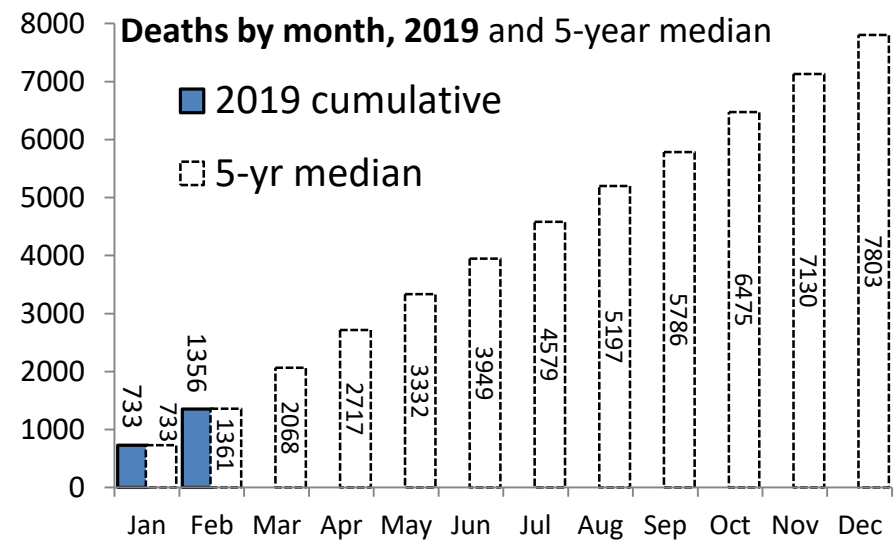
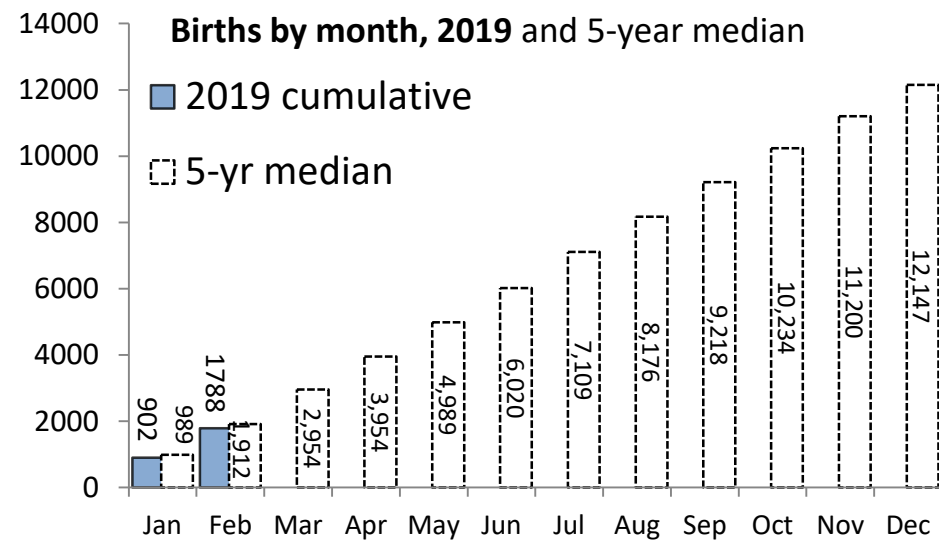
Animal Rabies in South Dakota, 2017 (N=22)



Cases by month of diagnosis 2014-2018



Births and Deaths, South Dakota, 2019



South Dakota Department of Health

doh.sd.gov/strategicplan

Vision **Healthy** People
Healthy Communities
Healthy South Dakota

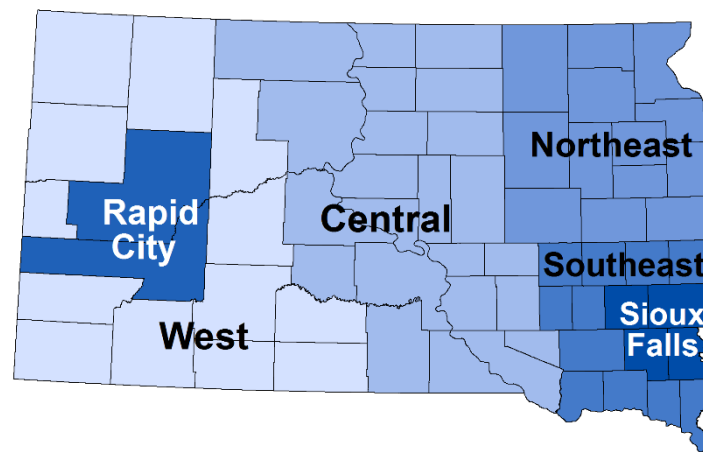
Mission **To promote, protect and improve the health of every South Dakotan**

Guiding Principles

- Serve** with integrity
- Eliminate** health disparities
- Demonstrate** leadership and accountability
- Focus** on prevention and outcomes
- Leverage** partnerships
- Promote** innovation

South Dakota Regions

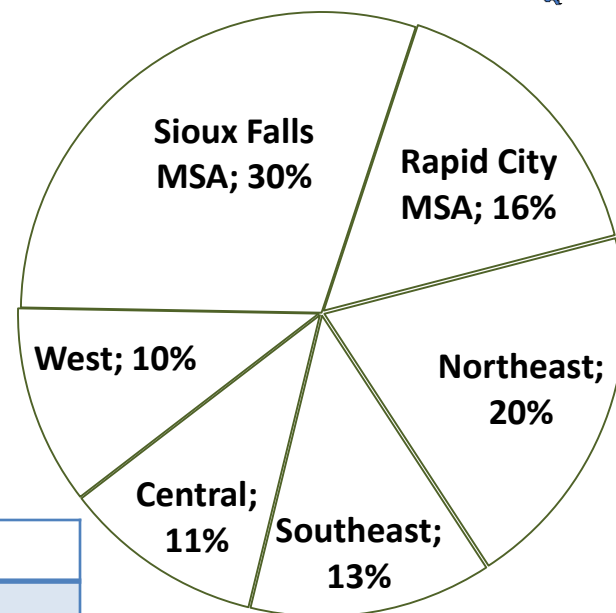
Region	Population	%	Area (sq miles)	Density (people per sq mile)
Sioux Falls MSA*	259,094	29.8%	3,141	82.5
Rapid City MSA*	138,159	15.9%	6,247	22.1
Northeast	172,612	19.8%	12,277	14.1
Southeast	113,216	13.0%	5,863	19.3
Central	93,506	10.8%	24,860	3.8
West	93,079	10.7%	23,508	4.0
South Dakota	869,666	100%	75,896	11.5



*Metropolitan Statistical Area

Age Group	Population	%
<1 year	12,257	1%
1–4 years	49,502	6%
5–14 years	119,675	14%
15–24 years	116,225	13%
25–39 years	168,141	19%
40–64 years	262,242	30%
>65 years	141,624	16%

Region	Population
East River	610,853
West River	258,813



Reportable Diseases List

<https://doh.sd.gov/diseases/infectious/reporting.aspx>

Monthly surveillance reports

<http://doh.sd.gov/statistics/surveillance>

How to report infectious diseases

1. Secure disease reporting website: <http://sd.gov/diseasereport>
2. Telephone: **1-800-592-1804** confidential recorder; or
1-800-592-1861 or **605-773-3737** After hours for Category I diseases or during normal business hours.
3. Fax: **605-773-5509**
4. Mail or courier: Office of Disease Prevention, SD Department of Health, 615 East 4th Street, Pierre, SD 57501; marked "*Confidential Disease Report*"

Department of Health publications

- **Public Health Bulletin:** <http://doh.sd.gov/resources/bulletin.aspx>
- **Adult Risk Behaviors:** <http://doh.sd.gov/statistics/>
- **Youth Risk Behaviors** (Dept of Education): <http://doh.sd.gov/statistics/YRBS.aspx>
- **PRAMS** (Pregnancy risk assessment monitoring system) <https://doh.sd.gov/statistics/prams.aspx>